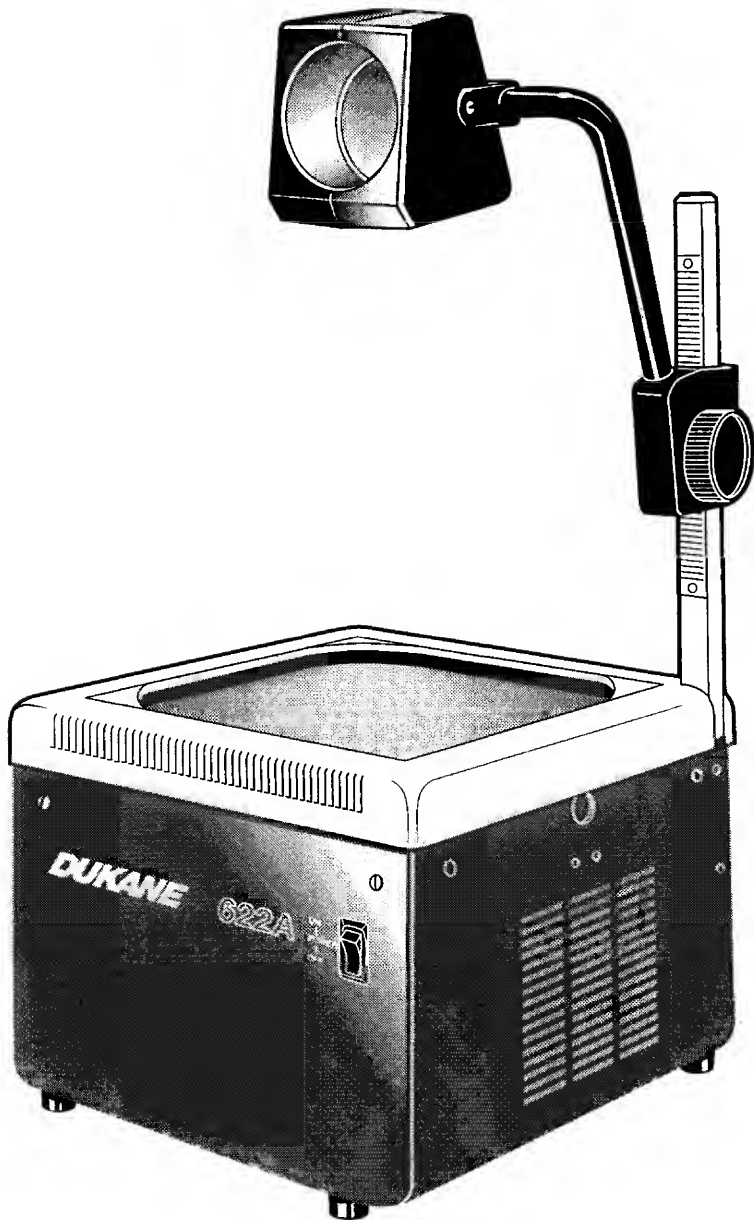


Operating Instructions

Overhead Projector



MODELS
28A622A
28A632A

Audio Visual Products

DUKANE

IMPORTANT SAFETY INSTRUCTIONS

When using your overhead projector, basic safety precautions should always be followed, including the following:

1. Read and understand all instructions before using.
2. Close supervision is necessary when any projector is used by or near children. Do not leave projector unattended while in use.
3. Care must be taken as burns can occur from touching hot parts.
4. Do not operate projector with a damaged cord or if the projector has been dropped or damaged – until it has been examined by a qualified serviceman.
5. Position the cord so that it will not be tripped over, be pulled or contact hot surfaces.
6. If an extension cord is necessary, a cord with a current rating at least equal to that of the projector should be used. Cords rated for less amperage than the projector may overheat.
7. Always unplug projector from electrical outlet before cleaning and servicing and when not in use. Never yank cord to pull plug from outlet. Grasp plug and pull to disconnect.
8. Let projector cool completely before putting away.
9. To protect against the risk of electric shock, do not immerse this projector in water or other liquids.
10. To avoid the risk of electric shock, do not disassemble this projector, but take it to a qualified serviceman when some service or repair work is required. Incorrect reassembly can cause electric shock when the projector is used subsequently.
11. The use of accessory attachment not recommended by the manufacturer may cause a risk of fire, electric shock or injury to persons.
12. Connect this projector to a grounded outlet.
13. Disconnect this unit from its source of supply before replacing the projection lamp.

Additional lamp safeguards: never handle lamps with bare fingers; periodically inspect lamps, when they're turned off, for signs of blistering or blackening; insure proper action of the cooling system; turn off the projector immediately if the image becomes abnormally dim; never operate a projector with the lamp housing open; and make sure that the lamp itself is properly seated.

SAVE THESE INSTRUCTIONS

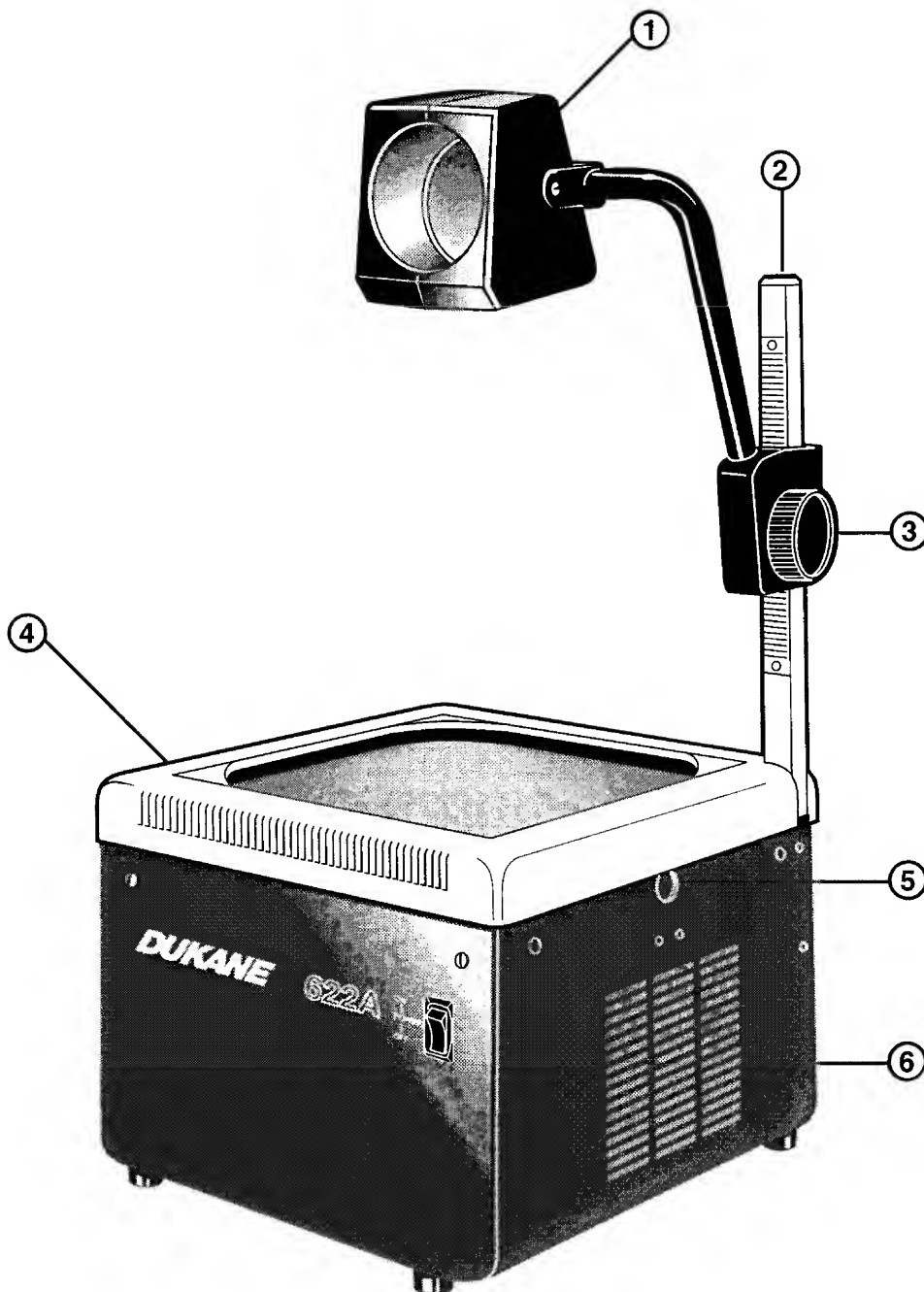
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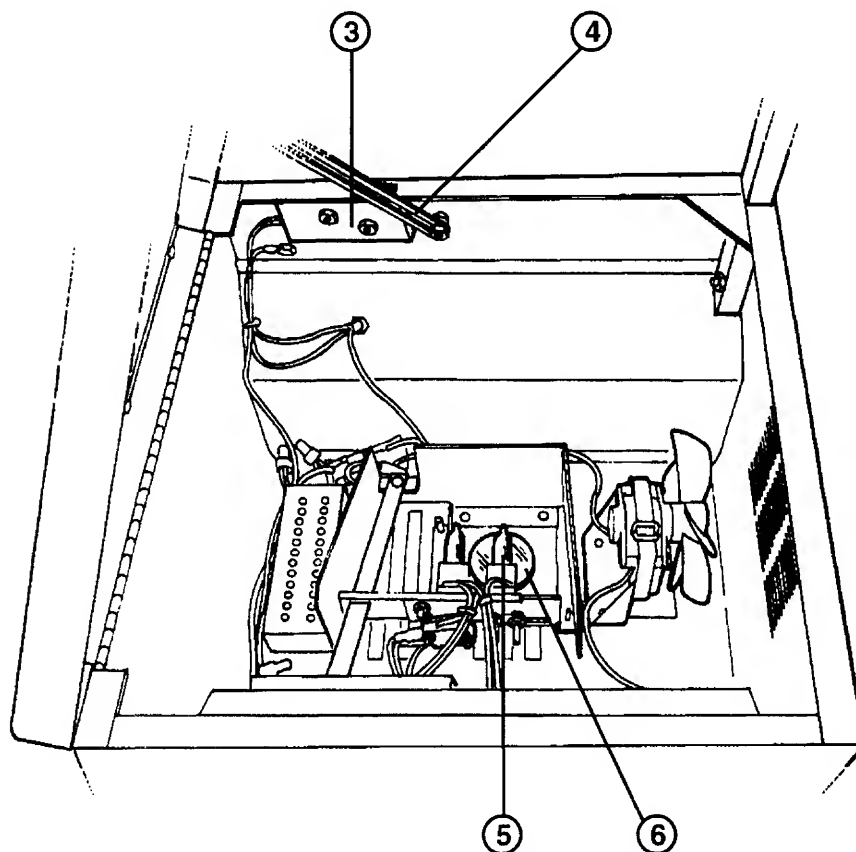
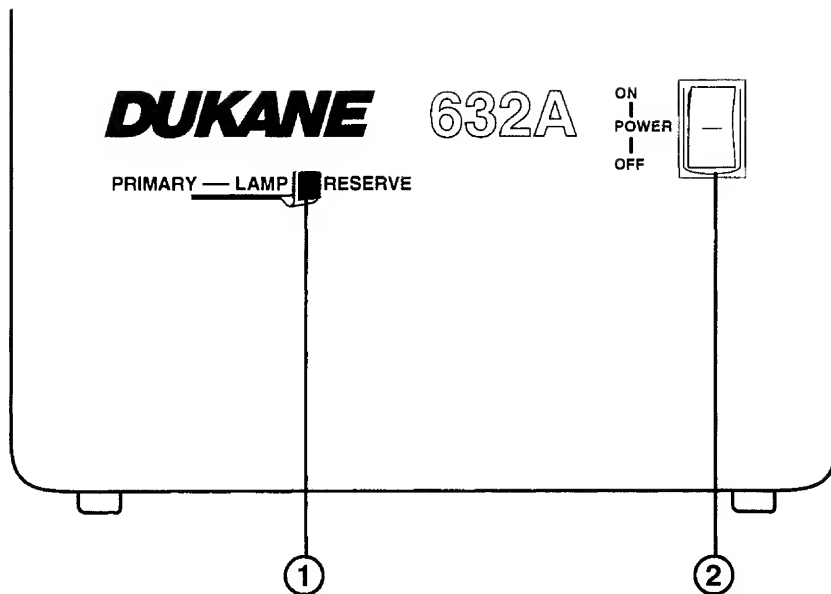
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1 - INDEX OF FUNCTIONAL PARTS

A number of terms are used frequently in this instruction booklet. The OVERHEAD PROJECTOR will be easier to operate if you become familiar with the terms for the functional parts listed below:



- | | |
|------------------------|------------------------|
| 1. DOUBLE ELEMENT HEAD | 4. STAGE |
| 2. MAST | 5. STAGE OPENING LATCH |
| 3. FOCUS KNOB | 6. BASE |



- 1. LAMP CHANGER
(28A632A)
- 2. POWER SWITCH
- 3. SAFETY INTERLOCK SWITCH

- 4. STAGE SUPPORT
- 5. LAMP
- 6. REFLECTOR

2 – SPECIFICATIONS

Models	28A622A, 28A632A
Dimensions	13" W. x 13" D. x 36" H. Max
Aperture	10" x 10" (254 x 254 mm)
Lens	f = 335 mm, 2 element — 28A622A, 28A632
Lamp	82V, 360W EYB Lamp (#456–186)
Head Elevation	Up to 30 Degrees
Focus	Rack and Pinion
Power	120V AC, 60 Hz — 28A622A, 28A632A
Power Cord	3–Wire Grounded, 10 Ft. — 28A622A, 28A632A
Safety Interlock	Cuts Off When Stage Is Open
Weight	14 Lbs., 1.5 Oz. — 28A622A 15 Lbs., 6.5 Oz. — 28A632A

3 – GENERAL DESCRIPTION

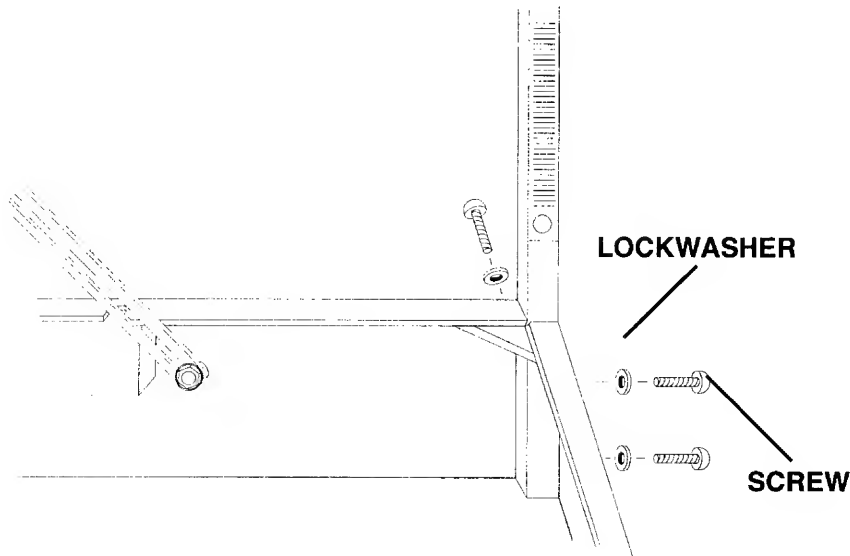
This Dukane Overhead Projector is a transmissive (lamp under stage) projector designed to project material on transparencies for audience viewing.

Your Dukane projector is designed to incorporate rugged simplicity with easy-to-use, efficient operation. With a minimum of routine care and maintenance, it will provide you with many years of dependable service.

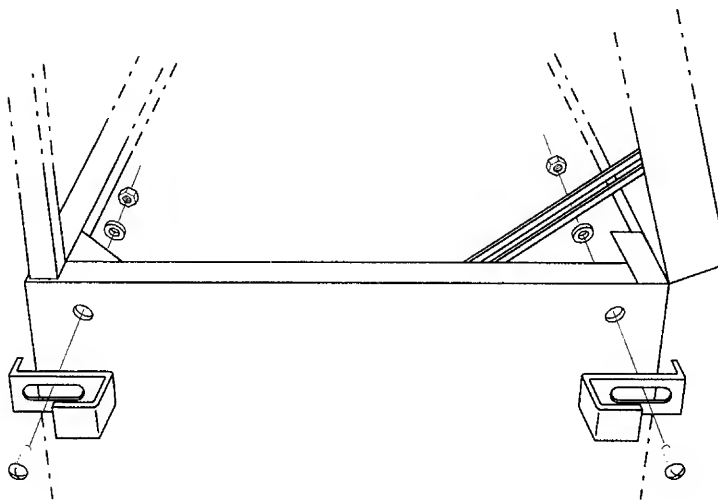
4 – ASSEMBLY

In order to protect the optical head during shipment, it has been packed apart from the base.

1. Remove head/mast assembly and base assembly from carton.
2. Place free square end of mast into square hole in top of base assembly. Be sure holes in side of mast line up with holes in side of base.
3. Using hardware supplied, assemble as below:



NOTE: Press mast tightly into corner prior to tightening mast mounting screws.



NOTE: Lockwashers and nuts not necessary on rear panel.

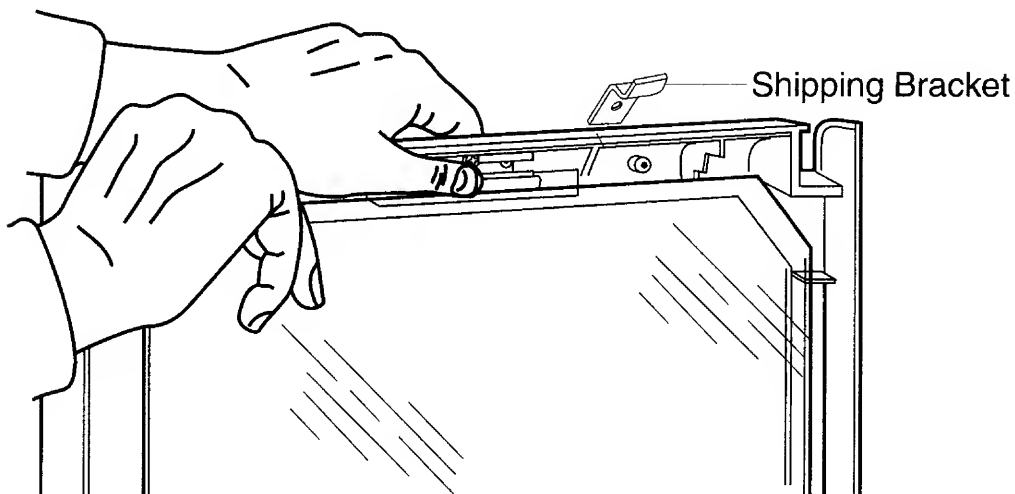
5 – OPERATION

Place the projector on a firm level surface at a convenient operating height. Be sure vent area on side of unit is not blocked. Plug the power cord into a 120V, 60 Hz AC outlet. Press power switch to ON position. Place a transparency on the stage and turn focus knob until image is in focus. Image elevation is adjusted by moving optical head up or down. Model 28A632A includes a lamp changer system that allows change of lamp by sliding a lever.

6 – CARE IN USE

6.1 Maintenance

Screen/Fresnel Lens: Remove by pressing fresnel release latch as shown below:



Clean with dry, lint free cloth. Shipping brackets do not need to be replaced if they are removed to clean Fresnel. See above.

6.2 Lamp Replacement

CAUTION: Glass components may shatter. Cover glass parts with cloth. Protect eyes. Handle carefully.

Allow the lamp to cool before removing it.

Your overhead projector utilizes a 360 watt EYB lamp, Dukane Part Number 456-186.

TO REMOVE:

1. Press stage opening latch and open stage to lock position.
2. Pull the used lamp out of the lamp socket.
3. Avoid touching new bulb or inside of reflector. Finger prints can affect performance.
4. Push lamp into socket until firmly seated.
5. Release stage support, close stage and press until firmly locked.

6.3 Storage

1. Controls should be in OFF position.
2. Store power cord properly.
3. Protect unit from dust as much as possible.

6.4 Information on Lamp Warranty

Projection lamps are warranted by the lamp manufacturer and not by the equipment manufacturer. If you have a lamp which you believe to be defective, contact the manufacturer of that particular lamp for the appropriate warranty replacement.

General Electric Company
1501 South 19th Street
Mattoon, Illinois 61938

North American Philips
Bank Street
Heightstown, New Jersey 08520

7 – SERVICING

7.1 Shipping Information

If it becomes necessary to return a unit, please use the original packing material or pack securely to insure safe shipment.

7.2 Service

Service and parts are available from any Dukane Approved Service Station or the A-V Service Department, c/o Dukane Corporation, or phone 1-800-676-2487. Service manuals are also available at a nominal cost.

7.3 To Receive No Charge In-Warranty Repairs

1. Equipment must be taken to Dukane Approved Service Station.
2. Warranty card or sales receipt must be presented when requesting warranty service.
3. If warranty card is lost: Send model and serial number of equipment to:

Dukane Corporation
A-V Service Department
2900 Dukane Drive
St. Charles, Illinois 60174
Phone: 630-584-2300
FAX: 630-584-5156

A new card will be issued on receipt of this information.

Dukane Corporation will not be liable for any expense incurred because of failure to present warranty card, pick-up and delivery charges, service calls, or if service is supplied by other than Dukane Approved Service Station.

8 – ELECTRICAL SAFETY GROUNDING INSTRUCTIONS

This Class I product uses a three-wire power cord that grounds the product for your protection. Do not DEFEAT or REMOVE the grounding pin. If an extension cord is used, it must also be a three-wire type with an ampere rating equal or greater than the product's rating. The plug must be connected to a properly grounded three-terminal power receptacle. Connection to any other type of receptacle should be done only by a qualified electrician in accordance with local and/or national electrical codes.

THREE-YEAR LIMITED WARRANTY

This Dukane audio visual product is warranted to the original purchaser for a period of three (3) years from the original purchase date -- in normal use and service -- against defects in material and workmanship. DUKANE CORPORATION EXPRESSLY DISCLAIMS ALL OTHER WARRANTIES, EXPRESSED OR IMPLIED, INCLUDING ALL WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE.

During the warranty period, Dukane Corporation will repair or replace (at the Manufacturer's option) any such defective parts (except for lamps, which are subject to whatever warranties the manufacturer may provide) without charge to the purchaser for parts or labor when the product is returned, prepaid and insured, with proof of purchase date. This remedy of repair or replacement is exclusive of all other remedies that the purchaser may have. This exclusive remedy is void if the product has been damaged by accident or unreasonable use, neglect, or improper service or other causes not arising out of defects in material or workmanship.

Dukane Corporation disclaims all liability for incidental or consequential damages of any kind, including all damages arising out of any interruptions in operation of the product and all damages to software.

No person, firm or representative is authorized to assume any obligation or make any warranty on behalf of the Dukane Corporation other than as stated above.

THIS LIMITED WARRANTY IS VALID FOR U.S.A. AND CANADA.
FOR OTHER LOCATIONS, LOCAL WARRANTIES APPLY.

Audio Visual Products

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Audio Visual Products Division
2900 Dukane Drive
St. Charles, IL 60174
Phone: (630) 584-2300
Fax: (630) 584-5156

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